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TO: Alton Pryor
Location: REM 4A39
Art Unit: 1616
October 19, 2004

4010

Case Serial Number: 10/049821

From: P. Sheppard
Location: Remsen Building
Phone: (571) 272-2529

sheppard@uspto.gov

Search Notes

=> fil hcaplus
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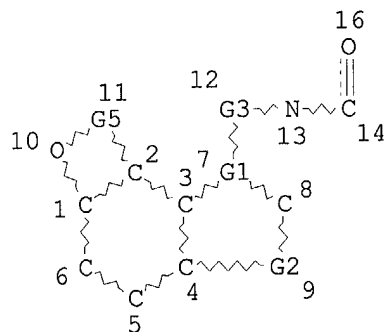
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FILE COVERS 1907 - 19 Oct 2004 VOL 141 ISS 17
 FILE LAST UPDATED: 18 Oct 2004 (20041018/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

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 L3 STR



VAR G1=C/N
 VAR G2=C/N/O/S
 REP G3=(1-4) C
 REP G5=(2-4) A
 NODE ATTRIBUTES:
 DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
 RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 15

STEREO ATTRIBUTES: NONE
 L9 92 SEA FILE=REGISTRY SSS FUL L3
 L10 2 SEA FILE=REGISTRY ABB=ON PLU=ON ("LAURIC DIETHANOLAMIDE"/CN
 OR "LAURIC DIETHANOLAMINE"/CN)
 L11 37 SEA FILE=HCAPLUS ABB=ON PLU=ON L9
 L12 SEL PLU=ON L10 1- CHEM : 101 TERMS
 L13 7054 SEA FILE=HCAPLUS ABB=ON PLU=ON L12
 L14 7142 SEA FILE=HCAPLUS ABB=ON PLU=ON L13 OR LAUR?(A)DIETHANOL?

L15 1 SEA FILE=HCAPLUS ABB=ON PLU=ON L11 AND L14

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=> d ibib abs hitstr l15 1

L15 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 2001:152517 HCAPLUS
 DOCUMENT NUMBER: 134:183534
 TITLE: Percutaneous absorption agents containing melatonin agonists
 INVENTOR(S): Suzuki, Yasuyuki; Iga, Katsumi; Miyamoto, Masaomi
 PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd., Japan
 SOURCE: PCT Int. Appl., 69 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001013950	A1	20010301	WO 2000-JP5525	20000818
W:			AE, AG, AL, AM, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CN, CR, CU, CZ, DM, DZ, EE, GD, GE, HR, HU, ID, IL, IN, IS, JP, KG, KR, KZ, LC, LK, LR, LT, LV, MA, MD, MG, MK, MN, MX, MZ, NO, NZ, PL, RO, RU, SG, SI, SK, TJ, TM, TR, TT, UA, US, UZ, VN, YU, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM	
RW:			GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG	
JP 2001131089	A2	20010515	JP 2000-254233	20000818
EP 1214944	A1	20020619	EP 2000-953481	20000818
R:			AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL	
PRIORITY APPLN. INFO.:			JP 1999-234106	A 19990820
			WO 2000-JP5525	W 20000818

OTHER SOURCE(S): MARPAT 134:183534

AB Percutaneous absorption agents which make it possible to absorb compds. having a melatonin receptor agonism via a convenient administration system, have favorable blood concentration passage characteristics and can exert a therapeutic effect on a disease caused by a decrease in melatonin at night. The compns. comprise melatonin agonists and ≥ 1 compds. selected from the group consisting of fatty acid esters, polyhydric alcs., and nonionic surfactants. A patch was prepared containing (S)-N-[2-(1,6,7,8-tetrahydro-2H-indeno[5,4-b]furan-8-yl)ethyl]propionamide 7.5, DuroTak 87-2979 47.5, **lauric acid diethanolamide** 5.0, iso-Pr myristate 20, and propylene glycol 20 %.

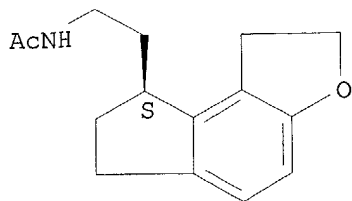
IT **326793-94-6P**

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (transdermal prepn. containing melatonin agonists for treatment of sleep disorders)

RN 326793-94-6 HCAPLUS

CN Acetamide, N-[2-[(8S)-1,6,7,8-tetrahydro-2H-indeno[5,4-b]furan-8-yl]ethyl]-
 (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 196597-26-9

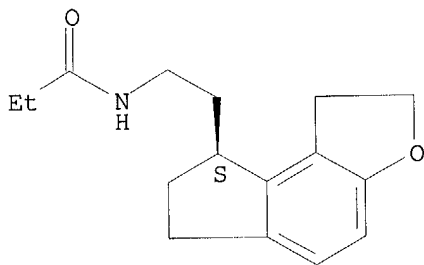
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(transdermal preps. containing melatonin agonists for treatment of sleep disorders)

RN 196597-26-9 HCAPLUS

CN Propanamide, N-[2-[(8S)-1,6,7,8-tetrahydro-2H-indeno[5,4-b]furan-8-yl]ethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

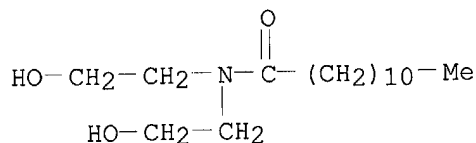


IT 120-40-1, Lauric acid diethanolamide

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(transdermal preps. containing melatonin agonists for treatment of sleep disorders)

RN 120-40-1 HCAPLUS

CN Dodecanamide, N,N-bis(2-hydroxyethyl)- (6CI, 8CI, 9CI) (CA INDEX NAME)



REFERENCE COUNT:

14

THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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=> d stat que nos 122

L3 STR
L9 92 SEA FILE=REGISTRY SSS FUL L3
L10 2 SEA FILE=REGISTRY ABB=ON PLU=ON ("LAURIC DIETHANOLAMIDE"/CN
OR "LAURIC DIETHANOLAMINE"/CN)
L11 37 SEA FILE=HCAPLUS ABB=ON PLU=ON L9
L12 SEL PLU=ON L10 1- CHEM : 101 TERMS
L13 7054 SEA FILE=HCAPLUS ABB=ON PLU=ON L12

L14 7142 SEA FILE=HCAPLUS ABB=ON PLU=ON L13 OR LAUR?(A)DIETHANOL?
 L15 1 SEA FILE=HCAPLUS ABB=ON PLU=ON L11 AND L14
 L16 158 SEA FILE=REGISTRY ABB=ON PLU=ON (MELATONIN/BI OR MELATONINE/B
 I)
 L17 13472 SEA FILE=HCAPLUS ABB=ON PLU=ON L16 OR ?MELATONIN?
 L21 3 SEA FILE=HCAPLUS ABB=ON PLU=ON L14 AND L17
 L22 2 SEA FILE=HCAPLUS ABB=ON PLU=ON L21 NOT L15

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=> d ibib abs hitstr l22 1-2

L22 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 2000:14983 HCAPLUS
 DOCUMENT NUMBER: 132:83650
 TITLE: Solid dispersed preparation of poorly water-soluble
 drug containing oil, fatty acid or mixtures thereof
 INVENTOR(S): Lee, Beom Jin
 PATENT ASSIGNEE(S): Won Jin Biopharma Co., Ltd., S. Korea
 SOURCE: PCT Int. Appl., 67 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000000179	A1	20000106	WO 1999-KR341	19990628
W: AU, CA, CN, JP, US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
KR 2000006503	A	20000125	KR 1999-24437	19990626
AU 9946556	A1	20000117	AU 1999-46556	19990628
PRIORITY APPLN. INFO.:			KR 1998-24563	A 19980627
			KR 1999-24437	A 19990626
			WO 1999-KR341	W 19990628

AB Disclosed is a solid dispersed preparation for poorly water-soluble drugs, which is prepared by dissolving or dispersing the poorly water-soluble drugs in an oil, a fatty acid or a mixture thereof, mixing the solution or dispersion in a water-soluble polyol matrix and drying the mixture. The solid dispersed preparation can be formulated into a power formulation or a granule formulation. The solid dispersed preparation is improved in the solubility of poorly water-soluble drugs

in the gastro-intestinal tract, resulting in a great increase in the bioavailability of the drugs. In addition, the solid dispersed preparation gives the pharmaceutical solns. to the problems that the conventional semi-solid or liquid prepns. possess, enabling medicinally effective, poorly water-soluble compds. to be formulated, molded and processed, quickly and in an economically favorable manner without use of any organic solvent. Examples are given for emulsions containing mixts. of waxes, oils, and aqueous phase.

IT 73-31-4, Melatonin 120-40-1D, Lauric acid diethanolamide, coco acyl derivs.

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)

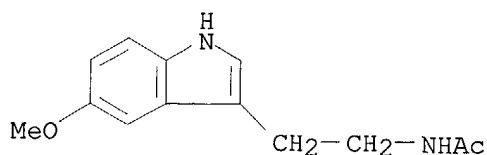
(solid dispersed preparation of poorly water-soluble drug containing oils and

fatty

acid or mixts.)

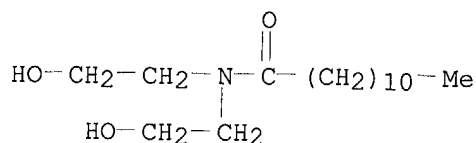
RN 73-31-4 HCAPLUS

CN Acetamide, N-[2-(5-methoxy-1H-indol-3-yl)ethyl]- (9CI) (CA INDEX NAME)



RN 120-40-1 HCAPLUS

CN Dodecanamide, N,N-bis(2-hydroxyethyl)- (6CI, 8CI, 9CI) (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L22 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1998:268388 HCAPLUS

DOCUMENT NUMBER: 128:326524

TITLE: Permeation enhancers for transdermal drug delivery compositions, devices, and methods

INVENTOR(S): Lee, Eun Soo; Yum, Su Il

PATENT ASSIGNEE(S): Alza Corp., USA

SOURCE: PCT Int. Appl., 44 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

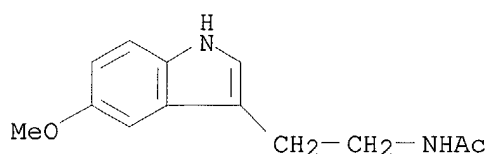
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9817315	A2	19980430	WO 1997-US18956	19971023
WO 9817315	A3	19980702		
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
CA 2264687	AA	19980430	CA 1997-2264687	19971023
AU 9749907	A1	19980515	AU 1997-49907	19971023
EP 934078	A2	19990811	EP 1997-912815	19971023
EP 934078	B1	20021218		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 2001502693	T2	20010227	JP 1998-519563	19971023
AT 229817	E	20030115	AT 1997-912815	19971023
ES 2191834	T3	20030916	ES 1997-912815	19971023
PRIORITY APPLN. INFO.: US 1996-30424P P 19961024				
WO 1997-US18956 W 19971023				

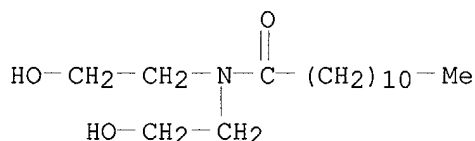
AB The present invention is directed to the transdermal administration of at least one drug together with a suitable amount of a permeation enhancer comprising monoalkyl ethers of polyethyleneglycol and their alkyl or aryl carboxylic acid esters and carboxymethyl ethers. The invention includes a

transdermal drug delivery device comprising a matrix adapted to be placed in drug-and-permeation enhancer-transmitting relation with a skin site. The matrix contains sufficient amts. of the permeation enhancer and drug, in combination, to continuously administer drug to the systemic circulation of a patient at a therapeutically effective rate. The invention is also directed to compns. and methods for transdermal administration of at least one drug together with a permeation enhancer of this invention, alone or in combination with other enhancers. Laureth-4 (30 weight%) alone exhibited about a 4-fold increase in testosterone permeation compared to a sample without any permeation enhancer.

IT 73-31-4, Melatonin 120-40-1, Dodecanamide, N,N-bis(2-hydroxyethyl)-
 RL: BPR (Biological process); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses) (permeation enhancers for transdermal drug delivery compns.)
 RN 73-31-4 HCAPLUS
 CN Acetamide, N-[2-(5-methoxy-1H-indol-3-yl)ethyl]- (9CI) (CA INDEX NAME)



RN 120-40-1 HCAPLUS
 CN Dodecanamide, N,N-bis(2-hydroxyethyl)- (6CI, 8CI, 9CI) (CA INDEX NAME)



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L3 STR
 L9 92 SEA FILE=REGISTRY SSS FUL L3
 L11 37 SEA FILE=HCAPLUS ABB=ON PLU=ON L9
 L31 11 SEA FILE=HCAPLUS ABB=ON PLU=ON L11 (L) (?MEDICI? OR ?THERAP? OR ?DRUG? OR ?PHARM?)
 L33 1 SEA FILE=HCAPLUS ABB=ON PLU=ON L31 AND SLEEP

=> d ibib abs hitstr 133 1

L33 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 1999:795635 HCAPLUS
 DOCUMENT NUMBER: 132:40535
 TITLE: Pharmaceutical composition for treating or preventing **sleep** disorders
 INVENTOR(S): Ohkawa, Shigenori; Miyamoto, Masaomi
 PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd., Japan
 SOURCE: PCT Int. Appl., 25 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent

LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9963977	A2	19991216	WO 1999-JP3057	19990608
WO 9963977	A3	20010329		
W: AE, AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CU, CZ, EE, GD, GE, HR, HU, ID, IL, IN, IS, JP, KG, KR, KZ, LC, LK, LR, LT, LV, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, SL, TJ, TM, TR, TT, UA, US, UZ, VN, YU, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2332521	AA	19991216	CA 1999-2332521	19990608
AU 9940605	A1	19991230	AU 1999-40605	19990608
JP 2000063272	A2	20000229	JP 1999-160568	19990608
JP 3509637	B2	20040322		
EP 1100508	A2	20010523	EP 1999-923960	19990608
EP 1100508	B1	20030827		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
AT 247967	E	20030915	AT 1999-923960	19990608
US 6348485	B1	20020219	US 2000-700405	20001114
PRIORITY APPLN. INFO.:				
			JP 1998-160270	A 19980609
			WO 1999-JP3057	W 19990608

AB The present invention provides a pharmaceutical composition for treating or preventing **sleep** disorders which comprises (S)-N-[2-(1,6,7,8-tetrahydro-2H-indeno[5,4-b]furan-8-yl)ethyl]propionamide (I) in combination with at least 1 active component selected from zolpidem, zopiclone, triazolam and brotizolam. Thus, I was obtained in a series of steps starting from 2,3-dihydrobenzofuran-5-carbaldehyde. Tablets were prepared from I 10.0, lactose 60.0, corn starch 35.0, gelatin 3.0, and Mg stearate 2.0 g. Treatment with compound I (0.003 mg/kg, p.o.) had no significant effects on the latency of any **sleep** stages. Treatment with triazolam alone (0.03 mg/kg) did not affect general behavior and it did not cause ataxia and sedation as such were seen when high doses of triazolam are given. Co-administration of I and triazolam shortened the latencies of deep slow wave **sleep**, stage 3 and stage 4, and it significantly shortened the latency of the stage 4 **sleep**. The co-administration also had no significant effects on general behavior of monkeys.

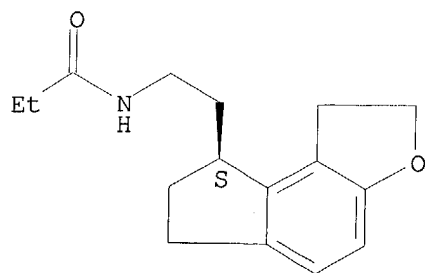
IT 196597-26-9P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (pharmaceutical composition for treating or preventing **sleep** disorders)

RN 196597-26-9 HCAPLUS

CN Propanamide, N-[2-[(8S)-1,6,7,8-tetrahydro-2H-indeno[5,4-b]furan-8-yl]ethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



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